

## Nu-Metrics Traffic Analyzer Study

### Computer Generated Summary Report City: between Richardson and 123

Street: Cedar Ave. #17 Red

A study of vehicle traffic was conducted with HI-STAR unit number 6243. The study was done in the West Bound lane on Cedar Ave. using counter #17 Red as shown on attached drawing. The counter was placed between Richardson and 123. The study began on 01/20/2004 at 04:00 PM and concluded on 01/23/2004 at 12:00 PM, lasting a total of 68 hours. Data was recorded in 60 minute time periods.

The total recorded volume of traffic showed 896 vehicles passed through the location with a peak volume of 46 on 01/20/2004 at 05:00 PM and a minimum volume of 0 on 01/21/2004 at 12:00 AM.

The

AADT Count for this study was 316.

#### **SPEED**

Chart 1 lists the values of the speed bins and the total traffic volume for each bin.

**Chart 1**

0 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 >
0	20	300	151	97	41	13	44

At least half of the vehicles were traveling in the 20 - 24 mph range or a lower speed. The average speed for all classified vehicles was 21 mph with 29.2 percent exceeding the posted speed of 25 mph.

The HI-STAR found 8.56 percent of the total vehicles were traveling in excess of 35 mph. The mode speed for this traffic study was 15 mph and the 85th percentile was 29.90 mph.

#### **CLASSIFICATION**

Chart 2 lists the values of the eight classification bins and the total traffic volume accumulated for each bin.

**Chart 2**

0 to 20	21 to 27	28 to 39	40 to 49	50 to 59	60 to 69	70 to 79	80 >
637	16	10	1	2	0	0	0

Most of the vehicles classified during the study were Passenger Cars. The number of Passenger Cars

in the study was 653 which represents 98.00 percent of the total classified vehicles. The number of

Small Trucks in the study was 10 which represents 1.50 percent of the total classified vehicles. The

number of Trucks/Buses in the study was 1 which represents 0.20 percent of the total classified

vehicles. The number of Tractor Trailers in the study was 2 which represents 0.30 percent of the total classified vehicles.

#### **HEADWAY**

During the peak time period, on 01/20/2004 at 05:00 PM the average headway between the vehicles was 76.6 seconds. The slowest traffic period was on 01/21/2004 at 12:00 AM. During this slowest period, the average headway was 3600.0 seconds.

### **WEATHER**

The roadway surface temperature over the period of the study varied between 23 and 56 degrees Fahrenheit. The HI-STAR determined that the roadway surface was Dry 100.00 percent of the time.